Claims

[c1]

1. A computerized method for indicating availability of one or a multitude of application-servers, said method comprising a first step of inserting into an availability-database a first-data-element comprising a notification-period, said notification-period defining an upper time limit for a repetition period of an availability-signal being repeated as long as said application-server is available, and said method comprising a second step of inserting into said availability-database a second-data-element comprising for each availability-signal its corresponding time stamp as availability-time, and

[c2]

said application-server.

2. A computerized method for indicating availability according to claim 1, said method comprising a third step of updating said notification-period depending on the amount of workload of said application-server either by increasing said notification-period, if said amount of the workload increases, or by decreasing said notification-period, if said amount of the workload decreases.

whereby, the difference of the current-time and a recent availability-time

compared to said notification-period is representing a measure of availability of

[c3]

3. A computerized method for indicating availability according to claim 1, wherein within said first and said second step also an application-server-identification is inserted into said availability-database and associated with said first- and said second-data-element.

[c4]

4. A computerized method for indicating availability according to claim 3, wherein said measure of availability indicates unavailability of said application-server, if said difference exceeds said notification-period.

[c5]

5. A computerized method for indicating availability according to claim 1, wherein said availability-database is shared by a multitude of application-servers each comprising a hot-pool of said one or multitude of application-servers, and

[c7]

[c8]

wherein for said hot-pool a watchdog is monitoring said hot-pool's availability status, and

wherein said method is being executed by said watchdog, and wherein said availability-signal is being repeated as long as at least one of said application-servers of said hot-pool is available, and wherein within said first and said second step also a hot-pool-identification is inserted into said availability-database and is associated with said first- and said second-data-element.

[c6] 6. A computerized method for indicating availability according to claim 2, whereby as a second difference the difference of said recent availability-time and a previous availability-time is included in said measure of availability.

7. A computerized method for indicating availability according to claim 5, whereby as a second difference the difference of said recent availability-time and a previous availability-time is included in said measure of availability.

8. A computerized method for determining availability of one or multitude of application–servers for accepting application–service–request, said method comprising a first step of querying an availability–database for a first–data–element comprising a notification–period, said notification–period defining an upper time limit for a repetition–period of an availability–signal being repeated as long as said application–server is available, and for a second–data–element comprising for a recent availability–signal its time–stamp as recent availability–time, and said method comprising a second step of determining a measure of availability of said application–server by comparing the difference of the current–time and said recent availability–time to said notification–period, said method comprising a third step of issuing an application–service–request to said application–server only, if said measure of availability indicates availability of said indication–server.

9. A computerized method for determining availability according to claim 8, wherein said measure of availability of the second step indicates unavailability of said application-server, if said difference exceeds said notification-period.

[**c**9]

[c12]

- 10. A computerized method for determining availability according to claim 8, [c10] wherein said method is querying in said first step also for a third-data-element comprising a previous availability-time for a previous availability-signal, and wherein in said second step also as a second difference the difference of said recent availability-time and said previous availability-time is included in said measure of availability.
- 11. A computerized method for determining availability according to claim 8, [c11] wherein said measure of availability indicates unavailability of said applicationserver, if said difference exceeds said notification-period by a factor of N.
 - 12. A computerized method for determining availability according to claim 10, wherein said method is being executed for a multitude of application-servers, and wherein in said third step a subset of application-servers, comprising application-servers for which said measure of availability indicates availability, is determined, and for each application-server within said subset its corresponding measure of availability is interpreted as a workload indication, and said application-service-request is being issued to an application-server with the lowest workload.
 - 13. A system indicating availability of one or a multitude of application-servers, said system comprising:
 - a first device for inserting into an availability-database a first-data-element comprising a notification-period, said notification-period defining an upper time limit for a repetition period of an availability-signal being repeated as long as said application-server is available, and;

said device further inserts into said availability-database a second-dataelement comprising for each availability-signal its corresponding time stamp as availability-time, and;

whereby, the difference of the current-time and a recent availability-time compared to said notification-period is representing a measure of availability of said application-server.

[c13]

[c14]

14. A data processing program for execution in a data processing system comprising software code portions, said software code portions comprises: a first software code portion for inserting into an availability-database a first-data-element comprising a notification-period, said notification-period defining an upper time limit for a repetition period of an availability-signal being repeated as long as said application-server is available, and; a second software code portion for inserting into said availability-database a second-data-element comprising for each availability-signal its corresponding time stamp as availability-time, and; whereby, the difference of the current-time and a recent availability-time compared to said notification-period is representing a measure of availability of said application-server.

[c15]

15. A computer program product stored on a computer usable medium, comprising a computer readable program embodied in said medium, including: readable code for inserting into an availability-database a first-data-element comprising a notification-period, said notification-period defining an upper time limit for a repetition period of an availability-signal being repeated as long as said application-server is available, and; readable code for inserting into said availability-database a second-data-element comprising for each availability-signal its corresponding time stamp as availability-time, and whereby, the difference of the current-time and a recent availability-time compared to said notification-period is representing a measure of availability of said application-server.

[c16]

16. A system for determining availability of one or multitude of application—servers for accepting application—service—request, said system comprising: a first device for querying an availability—database; for a first—data—element comprising a notification—period, said notification—period defining an upper time limit for a repetition—period of an availability—signal being repeated as long as said application—server is available; for a second—data—element comprising for a recent availability—signal its time—stamp as recent availability—time;

said device determines a measure of availability of said application-server by comparing the difference of the current-time and said recent availability-time to said notification-period, and;

wherein said device issues an application-service-request to said application-server only, if said measure of availability indicates availability of said indication-server.

[c17]

17. A data processing program for execution in a data processing system comprising software code portions, said software code portions comprises: a first software code portion for querying an availability-database; for a first-data-element comprising a notification-period, said notification-period defining an upper time limit for a repetition-period of an availability-signal being repeated as long as said application-server is available; for a second-data-element comprising for a recent availability-signal its time-stamp as recent availability-time; a second software code portion to determine a measure of availability of said application-server by comparing the difference of the current-time and said recent availability-time to said notification-period, and; a third software code portion to issue an application-service-request to said

application-server only, if said measure of availability indicates availability of

[c18]

said indication-server.

18. A computer program product stored on a computer usable medium, comprising a computer readable program embodied in said medium including: readable code for querying an availability-database; for a first-data-element comprising a notification-period, said notification-period defining an upper time limit for a repetition-period of an availability-signal being repeated as long as said application-server is available; for a second-data-element comprising for a recent availability-signal its time-stamp as recent availability-time; readable code for determining a measure of availability of said application-server by comparing the difference of the current-time and said recent availability-time to said notification-period; and readable code for issuing an application-service-request to said application-





server only, if said measure of availability indicates availability of said indication-server.